PATENT APPLICATION DOCKET NO.: 2685.2046-003

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

+{

Applicant:		Richard P. Batycky, Giovanni Caponetti, Mariko Childs, Elliot Ehrich, Karen Fu, Jeffrey S. Hrkach, Wen-I Li, Michael M. Lipp, Mei-Ling Pan and Jason Summa		
Appli	cation No.:	Group Art Unit:		
Filed:		Examiner:		
Confir	mation No.:			
Title:		INHALABLE EPINEPHRINE		
	Date: <u>Ju</u>	Express Mail Label No.: <u>ER 142989950 US</u>		
		INFORMATION DISCLOSURE STATEMENT		
P.O. B	issioner for Pate ox 1450 ndria, VA 2231			
Sir:				
This I	under 37 CF	sclosure Statement is submitted: R 1.129(a), or ission after Final Rejection)		
[ X ]		the following time periods: three months of filing national application (other than a CPA) or date of entry of the national stage application; or before the mailing date of a first office action on the merits in a non-provisional application, including a CPA, or a		
[]	under 37 CF	R 1.97(c) together with either:		
	[ ] a Stat	tement under 37 CFR 1.97(e), as checked below, or		
		0.00 fee under 37 CFR 1.17(p), or  .97(b) time period, but before final action or notice of allowance, whichever occurs first)		
[ ]	under 37 CF	R 1.97(d) together with:		
	[ ] a Stat	ement under 37 CFR 1.97(e), as checked below, and		
		0.00 fee under 37 CFR 1.17(p), or ion or notice of allowance, whichever occurs first, but on or before payment of the issue fee)		
[ ]	under 37 CF	quests that the IDS and cited reference(s) be placed in the application filewrapper.		

[ ]

Staten	ient Un	<u>der 37 CFR 1.97(e)</u>
[]	any co	tem of information contained in this Information Disclosure Statement was first cited in ommunication from a foreign patent office in a counterpart foreign application not more tree months prior to the filing of this Information Disclosure Statement; or
[]	comm knowl in the	m of information contained in this Information Disclosure Statement was cited in a unication from a foreign patent office in a counterpart foreign application, and, to the edge of the undersigned, after making reasonable inquiry, no item of information contained information disclosure statement was known to any individual designated in 37 CFR ) more than three months prior to the filing of this Information Disclosure Statement.
Staten	nent Un	der 37 CFR 1.704(d) (Patent Term Adjustment) Applies to original applications (other than design) filed on or after May 29, 2000
[ ]	comm was n	tem of information contained in the Information Disclosure Statement was cited in a unication from a foreign patent office in a counterpart application and this communication of received by any individual designated in § 1.56(c) more than thirty days prior to the of the Information Disclosure Statement.
[ X ]	Enclo	sed herewith is form PTO-1449:
	[X]	Copies of the cited references are enclosed.
	[ ]	Copies of cited references are enclosed except those entered in prior application, U.S. Application No. [ ], to which priority under 35 U.S.C. 120 is claimed. [The earlier application contains copies of the cited references.]
	[ ]	The listed references were cited in the enclosed International Search Report in a counterpart foreign application.
	[ ]	The "concise explanation" requirement (non-English references) for reference(s) [ under 37 CFR 1.98(a)(3) is satisfied by:
		[ ] the explanation provided on the attached sheet.
		[ ] the explanation provided in the Specification.
		[ ] submission of the enclosed International Search Report.
		[ ] submission of the enclosed English-language version of a foreign Search Report and/or foreign Office Action.

the enclosed English language abstract.

[]	A	pplic	ant requests that the following n	on-published pending app	lications be considered:
Examiner's Initials					
			U.S. Patent Application No. [	], by [inventor(s)], filed	], Docket No.: [ ]
			U.S. Patent Application No. [	], by [inventor(s)], filed [	], Docket No.: [ ]
			U.S. Patent Application No. [	], by [inventor(s)], filed	[ ], Docket No.: [ ]
			Examiner	Date	
	[	]	A copy of each above-cited app	olication, including the cur	rent claims, is enclosed.
	[	]	A copy of each above-cited app those entered in prior application 35 U.S.C. 120 is claimed.	olication, including the cur on, U.S. Application No. [	rent claims, is enclosed, except ], to which priority under
The Exreferen	can ice	niner s wer	is requested to return a copy of e considered with the next office	the above list of pending a e communication.	applications indicating which
It is re	que	ested	that the information disclosed h	erein be made of record in	this application.
Metho	d o	of pay	ment:		
[ ]	A ac	chec	k for the fee noted above is encl panying Reply. A copy of this S	osed, or the fee has been i tatement is enclosed.	ncluded in the check with the
[ ]	Pl er	lease iclose	charge Deposit Accounti ed.	n the amount of \$[ ].	A copy of this Statement is
[X]	Pl	lease	charge any deficiency in fees an	d credit any overpayment	to Deposit Account 08-0380.
			R	Respectfully submitted,	
				Ame I. Craig Registration No.: 32,97 Telephone: (978) 251-35 Facsimile: (978) 251-39	509

Chelmsford, MA 01863 Dated: 6/25/03

PTO-1449	REPRODUCED
----------	------------

## INFORMATION DISCLOSURE CITATION IN AN APPLICATION

(June 24, 2003)

(Use several sheets if necessary)

ATTORNEY	DOCKET	NO.
2685.20	46-003	

APPLICANT

Richard P. Batycky

FILING DATE

CONFIRMATION NO.

APPLICATION NO.

GROUP

		U	S. PATENT DOCUMENTS	
EXAM- INER INI- TIAL	REF. NO.	DOCUMENT NUMBER	ISSUE DATE / PUBLICATION DATE	. NAME
	AA	4,352,789	10-05-1982	Thiel
	AB	4,959,358	09-25-1990	Carey et al.
	AC	5,002,973	03-26-1991	Zeleznick et al.
	AD	5,049,389	09-17-1991	Radhakrishnan
	AF	5,655,523	08-12-1997	Hodson et al.
	AF	5,738,865	04-14-1998	Baichwal et al.
	AG	5,770,559	06-23-1998	Manning et al.
	AH	6,076,522	06-20-2000	Dwivedi et al.
	AF	6,098,619	08-08-2000	Britto et al.
	ΑJ	6,119,688	09-18-2000	Whaley et al.
	AK	6,126,919 -	10-03-2000	Stefely et al.
	AA2	6,183,782 B1;	02-06-2001	Hallworth
	AB2	6,221,398 Bl	04-24-2001	Jakupovic et al.
	AC2	6,245,339 B1 -	06-12-2001	Van Oort et al.
	AD2	6,284,287 B14	04-24-2001	Sarlikiotis et al.
	AE2	6,309,671 Bl-	10-30-2001	Foster et al.
	AF2	6,360,743 B1	03-26-02	Andersson et al.
	AG2			·
	AH2			
	AI2			
	AJ2			
	AK2			
	AA3			
	AB3			-
	AC3			

EXAMINER	DATE CONSIDERED	•	

PTO-1449 REPRODUCED	ATTORNEY DOCKET NO. 2685.2046-003	APPLICATION NO.	
INFORMATION DISCLOSURE CITATION IN AN APPLICATION	APPLICANT Richard P. Batycky		
(June 24, 2003)	FILING DATE	CONFIRMATION NO.	GROUP
(Use several sheets if necessary)			

γ	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
AR	Simons, F. E.R. et al., "Can Epinephrine Inhalations Be Substituted for Epinephrine Injection in Children at Risk for Systemic Anaphylaxis?" <i>Pediatrics</i> 106(5):1040-1044 (2000).
AS	Gu, X. et al., "Epinephrine Absorption after Different Routes of Administration in an Animal Model," Biopharm. Drug Dispos. 20:401-405 (1999).
AT	Heilborn, H. et al, "Comparison of subcutaneous injection and high-dose inhalation of epinephrine - Implications for self-treatment to prevent anaphylaxis," J. Allergy Clin. Immunol 78(6):1174-1179 (1986).
AU	Warren, J.B. et al., "Systemic absorption of inhaled epinephrine," Clin. Pharmacol. Ther. 40(6):673-678 (1986).
AV	Mellem, H. et al., "Faster and more reliable absorption of adrenaline by aerosol inhalation than by subcutaneous injection," Br. J. Clin. Pharmac. 31:677-681 (1991).
AW	Dahlof, C. et al., "Systemic absorption of adrenaline after aerosol, eye-drop and subcutaneous administration to healthy volunteers," Allergy 42:215-221 (1987).
AX	Plomley, R.F. and D. Czarny, "Inhaled adrenaline in the treatment of anaphylaxis," Med. J. Aust. 149:564 (1988).
AY	Bullock, K. And J.W. Lightbown, "The Spray-drying of Pharmaceutical Products, Part II. Certain Inorganic Salts," <i>The Chemist and Druggist, CXL</i> :147-148 (Jul-Dec 1943).
AZ	Bullock, K. et al., "The Spray-drying of Pharmaceutical Products, Part III. Digitalis, Adrenaline and Ascorbic Acid," Year-book of Pharmacy XVI:221-226 (1943).
AR2	EpiPen® Autoinjector (Dey). Physicians' Desk Reference, 56th ed. Montvale, New Jersey, Medical Economic Company, Inc. 2002:1236.
AS2	Simons, F.E.R. et al., "Epinephrine absorption in children with a history of anaphylaxis," J. Allergy Clin. Immunol. 101(1, part 1):33-37 (1998).
AT2	AAAI Board of Directors, Position Statement, "The use of epinephrine in the treatment of anaphylaxis," J. Allergy Clin. Immunol. 94(4):666-668 (1994).
AU2	Simons, F.E.R., et al., "Epinephrine absorption in adults: Intramuscular versus subcutaneous injection," J. Allergy Clin. Immunol. 108(5):871-873 (2001).

EXAMINER	DATE CONSIDERED

			Direct 5 Or
PTO-1449 REPRODUCED	ATTORNEY DOCKET NO. 2685.2046-003	APPLICATION NO.	
INFORMATION DISCLOSURE CITATION IN AN APPLICATION	APPLICANT Richard P. Batycky		
(June 24, 2003)	FILING DATE	CONFIRMATION NO.	GROUP
(Use several sheets if necessary)			

	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
AV2	Goldberg, A. and R. Confino-Cohen, "Insect sting-inflicted systemic reactions: Attitudes of patients with insect venom allergy regarding after-sting behavior and proper administration of epinephrine," <i>J. Allergy Clin. Immunol.</i> 106(6):1184-1189 (2000).
AW2	Korenblat, P. et al., "A Retrospective Study of Epinephrine Administration for Anaphylaxis: How Many Doses Are Needed?" Allergy and Asthma Proc. 20(6):383-386 (1999).
AX2	Sampson, H.A. et al., "Fatal and Near-Fatal Anaphylactic Reactions to Food in Children and Adolescents," New Engl. J. Med. 327:380-384 (1992).
AY2	Neugut, A.I., et al., "Anaphylaxis in the United States, An Investigation Into Its Epidemiology," Arch. Intern. Med. 161:15-21 (2001).
AZ2	Schwartz, H.J., et al., "Is unrecognized anaphylaxis a cause of sudden unexpected death?", Clin. Exp. Allergy, 25(9):866-870 (1995).
AR3	Barnard, J.H., "Studies of 400 Hymenoptera sting deaths in the United States," J. Allergy Clin. Immunol., 58(5):259-264 (1973).
AS3	Kemp, S.F. et al., "Anaaphylaxis, A Review of 266 Cases," Arch. Intern. Med. 155:1749-1754 (1995).
AT3	Pumphrey, R.S.H., "Lessons for management of anaphylaxis from a study of fatal reactions," Clin. Exp. Allergy, 30:1144-1150 (2000).
AU3	Kaliner, M., "Allergy care in the next millennium: Guidelines for the specialty," J. Allergy Clin. Immunol. 99(6, pt1):729-734 (1997).
AV3	Yunginger, J.W. et al., "Fatal Food-Induced Anaphylaxis," JAMA, 260(10):1450-1452 (1988).
AW3	Atkinson, T. P. And M.A. Kaliner, "Anaphylaxis," Med. Clin. North Am. 74(4):841-855 (1992).
AX3	McConachie, I. "Anaesthetic dilemmas. Laryngeal oedema following anaphyulactic shock," Br. J. Hosp. Med. 47(3):201 (1992).
AY3	Darbar, D. et al., "Epinephrine-Induced Changes in Serum Potassium and Cardiac Repolarization and Effects of Pretreatment With Propranolol and Diltiazem," Am. J. Cardiol. 77:1351-1355 (1996).

EXAMINER	DATE CONSIDERED

	07			311661 4 01 4
	PTO-1449 REPRODUCED  INFORMATION DISCLOSURE CITATION IN AN APPLICATION	ATTORNEY DOCKET NO. 2685.2046-003	APPLICATION NO.	
		APPLICANT Richard P. Batycky		
	(June 24, 2003)	FILING DATE	CONFIRMATION NO.	GROUP
	(Use several sheets if necessary)			

	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
AZ3	Barnes, P.J., "Effect of β-agonists on inflammatory cells," J. Allergy Clin. Immunol. 104(2, pt 2):S10-S17 (1999).
AR4	Bufarlari, A., et al., "Comparative Responses to Propofol Anaesthesia alone and with α <sub>2</sub> -Adrenergic Medications in a Canine Model," Acta Vet. Scand. 37(2):187-201 (1996).
AS4	British National Formulary, 42:155-157 (Sep 2001).
AT4	Medihaler-Epi (3M Health Care Limited). ABPI Compendium of Data Sheets and Summaries of Product Characteristics. 2 <sup>nd</sup> ed. London: Datapharm Publications Limited 693 (1998-1999).
AU4	Soreide, E. et al., "Severe anaphylactic reactions outside hospital: etiology, symptoms and treatment," Acta Anaesthesiol. Scand. 32:339-342 (1988).
AV4	National Advisory Committee on Immunization (NACI). "Anaphylaxis: Statement on Initial Management of in non-hospital settings," Canada Communicable Disease Report, 21-22:F1-F5 (1995).
AW4	AAAAI Board of Directors, Position Statement, "Anaphylaxis in Schools and Other Child-care Settings," J. Allergy Clin. Immunol. 102(2):173-176 (1998).
AX4	Scheuch, G. et al., "Measuring in vivo deposition of large porous particles," Abstract-138, ISAM, 12 <sup>th</sup> International Congress. J. Aerosol. Med. 12(2):127 (1999).
AY4	Sabroe, R.A. et al., "Therapeutics, An audit of the use of self-administered adrenaline syringes in patients with angio-oedema," British Assoc. Of Dermatology 146:615-620 (2002).
AZ4	Muller, U. et al., "Withdrawal of the Medihaler-epi®/Adrenaline Medihaler®: comments of the Subcommittee on Insect Venom Allergy of the EAACI," Allergy, 53:619-620 (1998).
AR5	Primatine® Mist (Wyeth). Physicians' Desk Reference, 21th ed. Montvale, New Jersey, Medical Economi Company, Inc., 792 (2000).

EXAMINER	า	DATE CONSIDERED